

ITS Technical Bulletin 218

STROBE RELEASE

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Section/Groups: Security/Software Support
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The new STROBE Version 1 Release 9.4 is currently being tested on CPU0. If there are no major problems, this new release will be installed on CPU2, CPU3, and CPU4 on September 5, 1995.

There are many enhancements in this release. Following are brief explanations of some of those enhancements.

Enhancements to Reports

STROBE Version 1 Release 9.4 includes enhancements to the STROBE Performance Profile reports as outlined below. The Concepts and Facilities manual contains more detailed information on each report.

Measurement Session Data Report

The following fields have been added to the MEASUREMENT STATISTICS section of the Measurement Session Data report:

CPU MARGIN OF ERROR PCT is a measure of confidence for the percentages on Performance Profile reports that detail CPU time. The level was previously reported only on reports that detail CPU usage. The CPU Margin of Error is now included on the Measurement Session Data report so that you can quickly determine the statistical accuracy of CPU reports. To clarify the new CPU margin of error measurements from the preexisting margin of error for run time reports, the MARGIN OF ERROR PERCENT field is renamed RUN MARGIN OF ERROR PCT.

SRB TIME reports the amount of time the system was managing service request blocks on behalf of the measured application. Service Request Blocks (SRB) represent high priority service routines. STROBE provides SRB time for your information and does not detail it in subsequent reports.

I/O Facility Utilization Summary Report

Three enhancements have been made to the I/O Facility Utilization Summary report. The report now:

Identifies caching information in a new column labeled CACHE ELIG

Identifies input and output activity separately

Provides, in the DEVICE TYPE column, model numbers as well as device types for DASD devices.

DASD Usage by Cylinder Report

The DASD Usage by Cylinder report now identifies cylinders that contain volume tables of contents (VTOCs) when they appear in the report.

Data Set Characteristics Report

STROBE has been enhanced to recognize three new values in the ACCESS METHOD column:

EXCP	direct invocation of execute channel program
MM/EXTSEQ	extended sequential format data sets (striped)
MM/PDSE	partitioned data set extended

If STROBE cannot identify an access method, OTHER, indicating a nonstandard access method, will appear.

Additional Reporting Enhancements

This release includes several enhancements that apply to the reporting facility:

The Reporter can report on up to 8190 control sections. This is increased from 4095.

The WAITLOC parameter now encompasses the function previously provided by the PAGELOC parameter. The WAITLOC parameter provides the location of wait, including page wait, in the program.

The COMPRESS parameter now supports a prefix of up to eight characters. This enables you to better control which modules are reported compressed under the pseudo module .SYSTEM.

The LINEMAX parameter now supports values from 45 to 80 for the lines per page to print.

A new parameter, NODSCS, enables you to suppress the Data Set Characteristics report. Because this report can generate a large number of pages and may not be useful when measuring some regions, such as the DB2 DBM1 region, you may choose to suppress it.

Enhancements to STROBE/ISPF Panels

STROBE/ISPF panels are now consistent in appearance and navigation. For example, the END function key is always used to leave the panel without processing. Titles and text now appear in a consistent manner on all panels. The STROBE User's Guide contains additional changes and

more detailed information.

The following panels are enhanced:

STROBE - DATA COLLECTORS panel reflects the new STROBE CSP Feature option.

STROBE - DETAIL FOR PERFORMANCE PROFILE panel has an expanded COMPRESS field to accept a prefix of up to eight characters. In addition, the lines per page that you can enter in the LINES/PAGE field is expanded to accept values between 45 and 80.

STROBE - TAILOR REPORTS panel now has one option to display the location of both program and page wait in the Wait Time by Module report. Specify “Y” in the WAIT TIME BY MODULE - SHOW LOCATION OF WAIT field.

STROBE - INDEX TO CREATE A MAP DATA SET panel permits you to include a member name of a preexisting partitioned data set as the data set name for your map data set. This panel also reflects the new Strobe Feature.

Enhancements to the STROBE DB2 Feature

The STROBE DB2 Feature includes the following enhancements:

Identification of SQL statements causing processing or wait in DB2 Lock Manager (IRLM) modules is improved.

The DB2 application program name for batch programs run under the TSO TMP now appears on the Measurement Session Data report.

For DB2 Version 3, STROBE reports if Query I/O Parallelism (PIO) was invoked for an eligible SQL statement.

CPU Usage by SQL Statement report will always print headings to show if SQL was dynamic, static, cursor, or non-cursor.

STROBE provides limited support of the Distributed Data Facility for DB2 Version 2.3 and above. The CPU Usage by SQL Statement report for DBRMs shows the location name of the remote DB2 subsystem against which the statement executed.

Enhancements to the STROBE ADABAS/NATURAL Feature

The STROBE ADABAS/NATURAL Feature includes the following enhancements:

ADABAS Release 5.2.6 is now supported.

NATURAL Release 2.2.7 is now supported.

Indexing of INCLUDED code is now supported.

Indexing of NATURAL programs is simplified by the removal of the reformatter step.

Multiple releases of NATURAL can now appear on the Measurement Session Data report.

Enhancements to the STROBE CICS Feature

The STROBE CICS Feature now supports CICS Version 4 Release 1.0.

Enhancements to the STROBE Language Features

The STROBE language features include the following enhancements:

The STROBE COBOL Feature includes attribution and function descriptors for AD/Cycle COBOL/370 V1R1 using LE/370 V1R2 and V1R3 run time libraries.

The STROBE PL/I Feature includes:

- Indexing support for AD/Cycle PL/I V1R1
- Attribution and function descriptors for AD/Cycle PL/I V1R1 using LE/370 V1R2 and V1R3 run time libraries.

The STROBE C Feature includes indexing support for AD/Cycle C/370 V1R2.

The STROBE FORTRAN Feature includes indexing for FORTRAN V2R6.

Enhancements to Documentation

STROBE documentation is updated to reflect the changes in this release. The STROBE documentation distributed with STROBE Version 1 Release 9.4 incorporates the following enhancements:

New Documentation

The STROBE CSP Feature, form number S020, is an addition to STROBE documentation. It guides your use of the new STROBE CSP Feature.

Replaced Documentation

The following documentation is revised and reissued:

STROBE Concepts and Facilities, form number S011, includes in Chapter 5, “Interpreting the STROBE Performance Profile”, samples from a COBOL II program, and a Performance Profile that are shown in their entirety in Appendix C.

STROBE User’s Guide, form number S012, includes:

- An updated “Languages Supported by the Indexers” table
- Three new sections in Chapter 4, “Suppressing the Data Set Characteristics Supplement Report”, “Tailoring the Reporting of SQL Activity”, and “Suppressing the DL/I CPU and Wait Reports”.

STROBE System Programmer’s Guide, form number S013, details changes in the installation of the APMPOWER SQL Analysis Feature MVS Component and incorporates miscellaneous changes.

STROBE Messages, form number S017, is updated with all new and changed messages and ABEND codes that apply to this release of STROBE.

STROBE Quick Reference Card, form number PGM001, is updated to reflect the new functionality in this release of STROBE.

Updated Documentation

The following documentation is updated with technical newsletters that you insert into your existing manuals:

STROBE DB2 Feature, form number S016.4.TNL01, is a technical newsletter that reflects the new functionality of the STROBE DB 2 Feature.

STROBE ADABAS/NATURAL Feature, form number S018.2.TNL01, is a technical newsletter that reflects the new functionality of the STROBE ADABAS/NATURAL Feature.